ANNUAL SITE INSPECTION REPORT

AUGUST 2001

BAILEY SUPERFUND SITE

Prepared by:

PARSONS
ENGINEERING SCIENCE, INC.

SEPTEMBER 2001

Ernest J. Schroeder

Ernest J. Schroeder, P.E.

33556 TX

P.E. Number

9/24/01

Date

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SECTION 1

1.0 INTRODUCTION

The annual inspection of the Bailey Superfund Site was conducted on July 10, 2000 by Allison Merz of Parsons Engineering Science, Inc. (Parsons ES). Ms. Merz has completed numerous other cap inspections at other RCRA and Superfund sites and has a thorough knowledge of the site background and understanding of the implemented remedy. The inspection was conducted in accordance with the Final Inspection, Maintenance, and Monitoring Plan (prepared by Parsons ES and GeoSyntec, September 1997).

An inspection check list was developed to aid in the inspection of the site and is included in Appendix A. The check list was completed as the entire site was walked and observations were made. Any areas of concern that were observed during the inspection were noted and located on a site map that is included in Appendix B. A summary of the inspection and its findings is presented in Section 2.

SECTION 2

2.0 INSPECTION SUMMARY

Allison Merz of Parsons ES, the Bailey Site Settlors Committee's (BSSC) authorized representative, conducted a visual inspection of the site on July 10, 2000.

2.1 Grounds Inspection

The North and East Dike areas were inspected by traversing the surface area of each dike and thoroughly looking for signs of problems that would affect the integrity of the landfill cap system. The entire site was mowed approximately one week prior to the inspection. In general, the caps and dikes appear to be in good condition. The grass also was generally found to be in good condition. There are a few areas where the grass was stressed due to the dry conditions experienced in the area during the previous two months.

The landfill caps were inspected for signs of erosion, exposure, differential settlement, and ponding. The condition of the surface vegetation and the gas vents were also noted. Areas of stressed vegetation are noted on the map in Appendix B. No grass needs to be re-seeded. Some woody plants are growing along the outer edge of both cap areas as illustrated on the map. These will be removed to prevent them from spreading onto the cap slopes and caps themselves. No erosion along the dike slopes and caps is evident. There are also some signs of minor soil desiccation on the East Dike Cap near the southern end (see map in Appendix B).

The North and East dikes and caps were also inspected for differential settlement. Rainfall for the year has been below average and no signs of significant settlement are evident. Both caps appear to be level, relatively even, and stable. No areas of ponding were evident.

2.2 Dike Breaches and Drainage Pipes

The dike breach in the North Marsh perimeter dike was inspected and found to be in good condition, allowing free flow of tidal waters. The drainage pipes in the former laydown area and at the end of the East Dike were found to be in good condition with no obstructions.

2.3 Fence and Sign Inspection

The fencing at the site was inspected and found to be in good condition. The gates and locks were also inspected and found to be in good condition, except that the chain and lock around the gate at the southwest side of the East Dike Cap are not wrapped around the gateposts. Entrance is possible through this gate. The site owner, Mr. Rodney Townsend, was advised of this condition and the need for correction. The signs located around the perimeter of the site are generally in good condition. One of the signs on the

gate for the access bridge is showing signs of deterioration. There are two signs on this gate and the other one is in good condition.

2.4 Site Access Bridge Inspection

The access bridge to the site was inspected and found to be in good condition. The bridge decking, hand rails, approaches, and steel structure also appear to be in good condition. The offsite road at the northeast corner of the bridge is showing the initial signs of stormwater erosion. This condition should be monitored during future inspections.

2.5 Road Inspection

The access roads for the North and East Dike Caps were inspected for signs of rutting, potholes, erosion, and accumulation of silt. As mentioned in Section 2.4, the off-site road is showing signs of stormwater erosion. All on-site roads were found to be in good condition.

2.6 Other Observations

No other problems were noted during the inspection.

SECTION 3

3.0 SUMMARY OF PROBLEM AREAS AND RECOMMENDED ACTION

The Bailey Superfund Site was found to be in generally good condition during the July 2000 Annual Site Inspection. A few areas of concern were noted and are detailed below:

- Some vegetation on caps was stressed due to the lack of rainfall. These areas should recover with rainfall. Therefore, no action is required;
- Minor soil desiccation was observed on East Dike Cap. This condition will recover with rainfall. No action is required;
- Woody plants were noted growing along the edges of both caps. These plants will be removed to prevent further propagation;
- The chain and lock on the southern gate of East Dike Cap are not installed properly. The lock will be replaced with one identical to the main gate and the chain will be secured around both gateposts to prevent entrance. A verbal request to Rodney Townsend was made at the time of the inspection to complete this task and a written request was made in September 2000; and
- The off-site road near northeast corner of access bridge is showing the initial signs of stormwater erosion. Recommended action is to monitor condition carefully.

APPENDIX A

SITE INSPECTION CHECK LIST

BAILEY SITE INSPECTION CHECK LIST

Inspection Date: August 22, 2001

Inspection Time: 0930

Name of Inspector: Allison Merz

Weather Conditions: Mostly Sunny, Humid, Temp ≈ 75-95 °F

Ground Inspections

Condition of Vegetation:
- Grass Height: 2.5 feet
- Color: green / green-yellow
- Fullness: good
- Areas of Concern: (Yes) No (If Yes, Detail on Map)

Signs of Erosion: Yes (No) (If Yes, detail location on map and note average depth and width)

Exposed Geosynthetics: Yes (No) (If Yes, provide location on map and note if it's the geocompsite drainage layer, 60 mil HDPE liner, or geosynthetic clay liner.)

Signs of Differential Settlement: (Yes) No (If Yes, provide location on map noting estimated depth and width)

Ponding Greater than 2" in Depth: Yes (No) (If Yes, provide location on map, noting depth)
- Evidence of Prolonged Ponding: Yes (No)
- Estimated date of last rain event: ≈ Aug 15, 2001

Gas Vents:
- Condition of Barrier: good
- Condition of Piping: good
- Screens Intact: (Yes) No
- Riser Pipe Plumb: (Yes) No

BAILEY SITE INSPECTION CHECK LIST

Condition of Dike Breaches and Drainage Pipes

Verify that each allows free drainage:

Pond A culvert at South end of East Dike:	Yes	No	Unable to Inspect
Site Entrance Area (Non-capped Area):	(Yes)	No	
Perimeter Dike Breach in Pond A:	Eliminated by owner with EPA approval.		
Perimeter Dike Breach in North Dike:	(Yes)	No	

If the answer was No to any of the above, describe the obstruction:

Unable to inspect

Fence and Sign Inspection

Chain Link Fencing		
Signs of unauthorized entry:	Yes	(No)
Fence Damage:	Yes	(No)
Corrosion:	Yes	(No)
Barb Wire Damage:	Yes	(No)
Gates & Locks in good condition:	(Yes)	No
Overhang Extensions		
Signs of unauthorized entry:	Yes	(No)
Signs of damage:	Yes	(No)
Signs		
Verified all signs:	Yes	(No)
Signs on all gates:	Yes	(No)

Provide location of any damage on the map. Describe below any damage to the fence or signs:

- Remove flagging from "KEEP OFF" sign on east end of north dike cap. → CO completed 8/22/01.
- Need sign on outside gate.
- Sign missing on east side, south of gate.

BAILEY SITE INSPECTION CHECK LIST

Site Access Bridge

Are the following in good condition:

Wood Decking:	(Yes)	No	
Hand Rails:	(Yes)	No	
Approaches:	(Yes)	No	- See Note Below
Bridge Steel Structure:	(Yes)	No	

If No, describe the observed condition:

- Hwy 87 side needs more gravel fill to approach of wooden decking.
- Sign needed on otter gate (Hwy 87 side).

Road Inspection

Rutting	Yes	(No)	(If yes to any, provide location on map)
Potholes	Yes	(No)	
Erosion Channeling	Yes	(No)	
Accumulation of Silt	Yes	(No)	

Other General Site Observations:

- May need weed control on roads.
- Potential animal burrows (no longer active) exist at vents 2 and 4 on the East Dike Cap. Holes are about 4-5" in diameter.

BAILEY SITE INSPECTION CHECK LIST

Summary of Problem Areas Identified

- 4 areas noted of thin vegetation along the northern edge of the North Dike Cap. These areas are minimal in size. Recommend placement of hay bales.
- Rip rap, approx. 100 feet west of 5th vent on N. Dike Cap on southern side, shows signs of potential settling and/or movement due to stormwater runoff from the cap.
- We were unable to inspect the Pond A culvert but Pond A does not appear to have water condition problems.
- Sign missing on outer gate.
- Sign missing on east fence, just south of gate.
- Approach to bridge from east side (Hwy 87) needs more gravel to fill in gap between road & bridge.
- Weed control may be needed for on-site roads if weeds do not die during cooler weather.
- Two holes, one at vent 2 and one at vent 4, on the East Dike Cap need to be filled in with soil. Inspection of geosynthetic material should be completed before soil is placed in holes.

Allison L. Mercy

Inspector's Signature

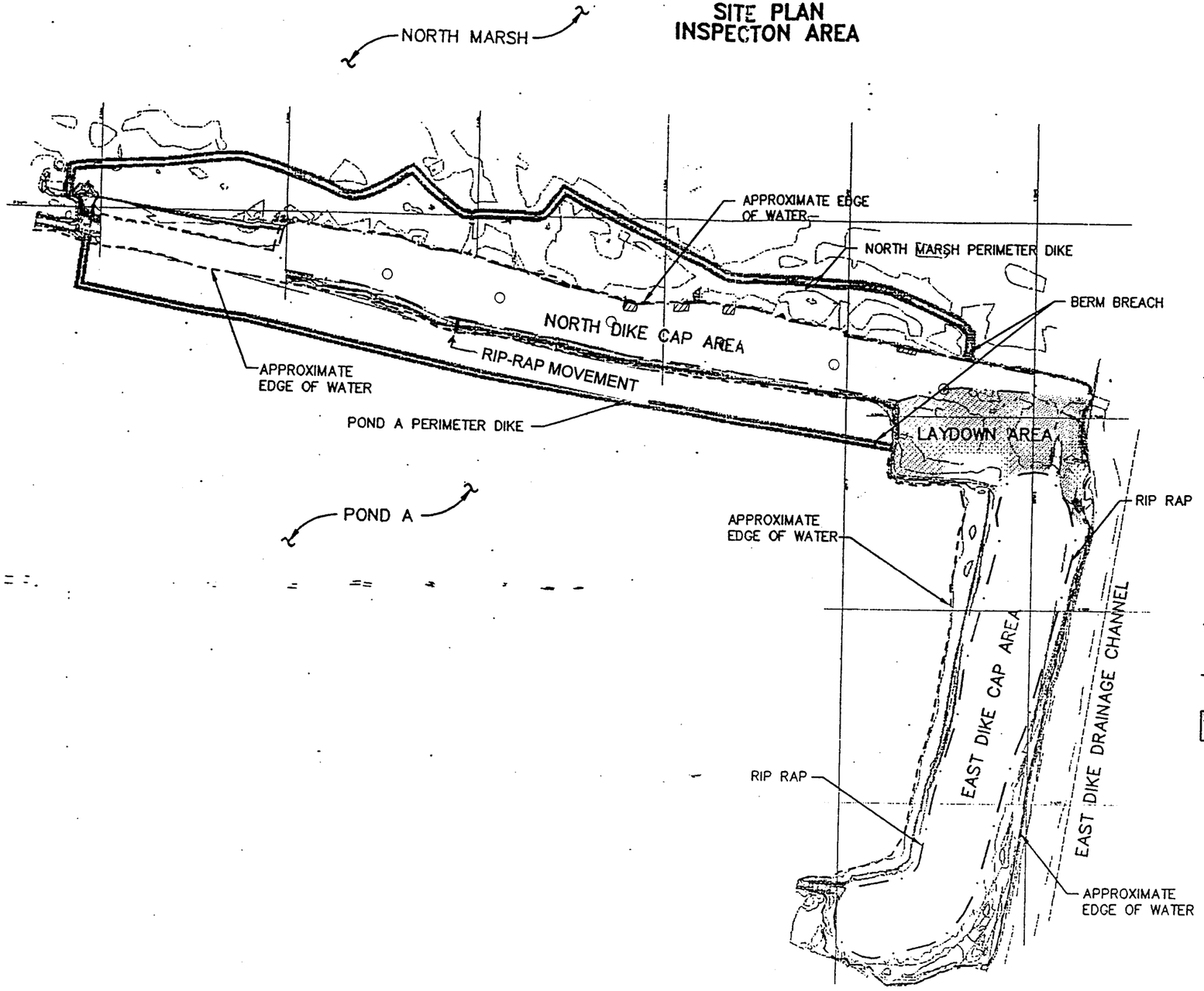
8/22/2001

Date

APPENDIX B

SITE MAP

SITE PLAN
INSPECTON AREA



NORTH

NOTES:

1. DRAWING BASED ON PREVIOUS SITE TOPOGRAGHIC INFORMATION AND DESIGN DRAWINGS. DRAWING IS NOT BASED ON FINAL AS-BUILT DATA.
2. LOCATION OF EDGE OF WATER SHOWN IS THE LOCATION AT THE TIME OF SURVEY. WATER LEVELS SUBJECT TO TIDAL VARIATIONS. AVERAGE TIDE ELEVATIONS ARE: LOW TIDE – -2.0 FEET (MSL) AND HIGH TIDE +1.0 FEET (MSL). TIDE ELEVATIONS ARE SUBJECT TO VARIATION DEPENDING ON SEASON AND LOCAL WEATHER CONDITIONS.
3. RIPRAP LOCATED ON ALL SLOPES.
4. INSPECTION AREA TO INCLUDE, AS A MINIMUM,
   - NORTH DIKE CAP AREA
   - EAST DIKE CAP AREA
   - ALL AREAS OF RIP RAP
   - VISUAL OBSERVATION OF PERIMETER DIKES
   - ACCESS BRIDGE
   - SITE FENCING (FIGURE 2.2)

LEGEND – GENERAL

EXISTING CONTOUR (FEET)

ANCHOR TRENCH

APPROXIMATE LIMIT OF GRAVEL SURFACING

HAY BALES NEEDED

0 300
SCALE IN FEET

GeoSyntec Consultants
ATLANTA, GA

PROJECT NO. GE3913-620	FIGURE NO. 2.1
DOCUMENT NO.	FILE NO. 3913F004

Photo 1: North Dike Cap looking west.

Photo 2: View of East Dike Cap illustrating healthy, dense grass growth.

Photo 3: Edge on North Dike Cap with dense grass growth and hay bales.

Photo 4: Area where new soil and grass seed were applied in mid June 2001. Grass has covered approximately 90% of bare soil.

Photo 5: Hay bales effectively holding soil in place and preventing significant erosion on North Dike Cap.

Photo 6: Area of new soil and grass growth (outlined in black) on the North Dike Cap. Soil and grass seed were placed in the middle of June 2001.

Photo 7: Small area of less grass growth on the North Dike Cap between the first and second gas vents (going east to west). New soil was placed here in June 2001.

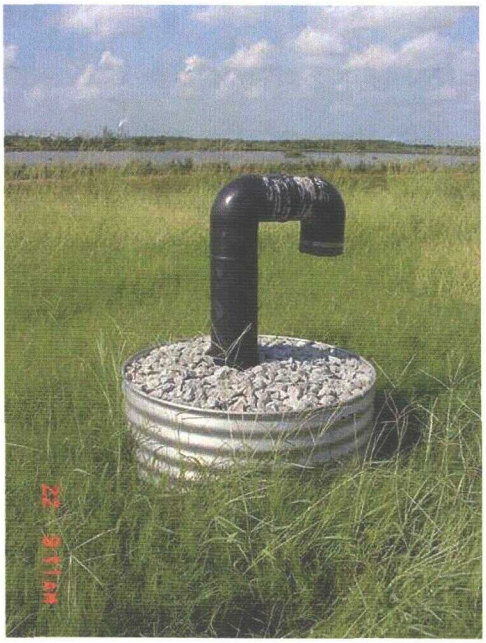


Photo 8: Gas vents are in good condition.

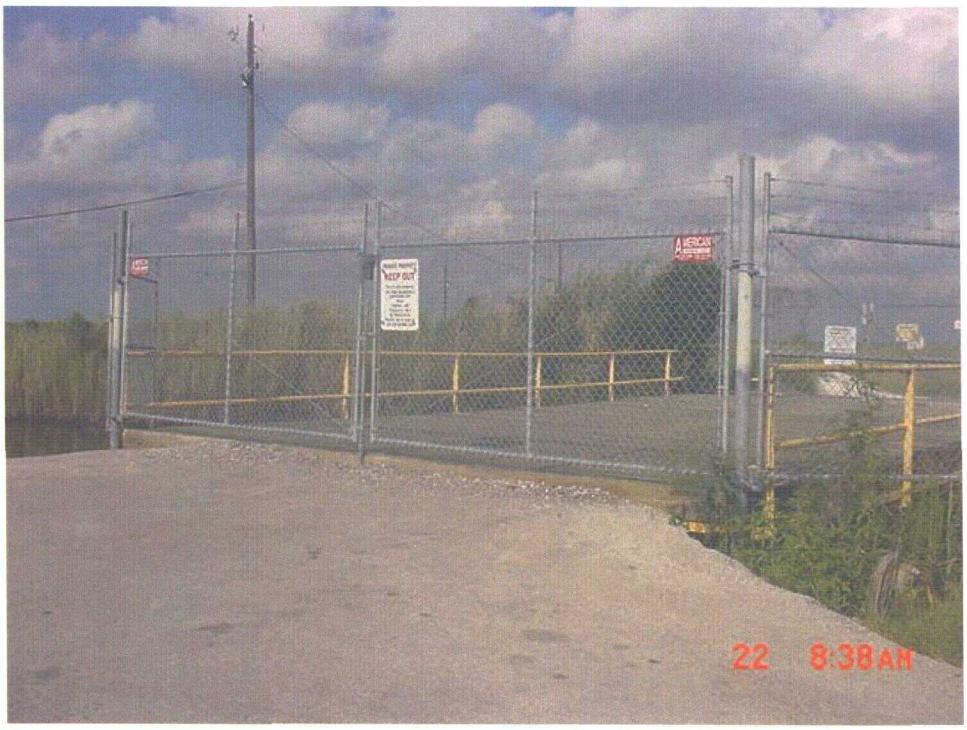


Photo 9: Main gate and bridge, looking west.

Photo 10: Back gate is locked and secure.

Photo 11: Structure of bridge at northeast corner.

Photo12: Structure of bridge at northwest corner.